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PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Kelly SHOEMAKE *et al.*

Serial No. 10/671,884

Filed: September 29, 2003

)  
) Group Art Unit: 1771

)  
) Examiner: TBA

)  
) Atty. Docket 005242.00133

For: UREA-FORMALDEHYDE BINDER COMPOSITION AND PROCESS

**INFORMATION DISCLOSURE STATEMENT**

U.S. Patent and Trademark Office  
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Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, attached is a Form PTO 1449 listing references for consideration by the Examiner during the prosecution of the above-captioned patent application. Consideration of the listed references and making the same of record in the above-captioned patent application are respectfully requested. Because these references are being provided within the time period specified under 37 C.F.R. § 1.97(b)(3) (*i.e.*, before the mailing of a first Office Action on the merits), it is believed that no fee is due. However, if it is determined that a fee is due, please charge the appropriate amount to our Deposit Account No. 19-0733.

Copies of U.S. patent references are not being submitted herewith, in accordance with the Official Gazette Notice dated August 5, 2003, waiving the requirement under 37 C.F.R. § 1.98(a)(2)(i) for submitting copies of U.S. patents in patent applications filed after June 30, 2003.

Copies of all other listed references are submitted herewith.

Applicants do not waive any rights to establish patentability over any of the listed references, should they be applied against the claims of the above-captioned patent application.

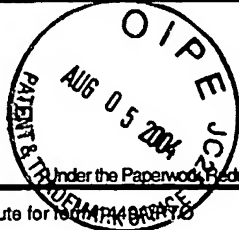
Respectfully submitted,

By: 

Joseph M. Skerpon  
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Date: August 5, 2004

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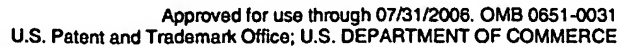
Sheet 1 of 4

### Complete if Known

Application Number	10/671,884
Filing Date	September 29, 2003
First Named Inventor	Kelly SHOEMAKE
Art Unit	1771
Examiner Name	TBA
Attorney Docket Number	005242.00133

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-			
		US- 2,906,660	09-29-1959	Hungerford et al.	
		US- 3,012,929	12-12-1961	Jackson et al.	
		US- 3,050,427	08-21-1962	Slayter et al.	
		US- 3,103,461	09-10-196	Smith et al.	
		US- 3,228,825	01-11-1966	Waggoner	
		US- 3,760,458	09-25-1973	Pitt	
		US- 3,768,003	10-16-1973	Schuller et al.	
		US- 3,838,995	10-01-1974	Smith	
		US- 3,905,067	09-16-1975	Keib et al.	
		US- 4,112,174	09-05-1978	Hannes et al.	
		US- 4,258,098	03-24-1981	Bondoc et al.	
		US- 4,282,119	08-04-1981	Tinkelenberg et al.	
		US- 4,474,694	10-02-1984	Coco et al.	
		US- 4,554,337	11-19-1985	Krinski et al.	
		US- 4,560,612	12-24-1985	Yau	
		US- 4,681,802	07-21-1987	Gaa et al.	
		US- 4,687,826	08-18-1987	Steinmetz et al.	
		US- 4,810,576	03-07-1989	Gaa et al.	
		US- 4,917,764	04-17-1990	Lalwani et al.	
		US- 5,153,242	10-06-1992	Timm et al.	
		US- 5,344,871	09-06-1994	Timm et al.	
		US- 5,362,842	11-08-1994	Graves et al.	
		US- 5,389,716	02-14-1995	Graves	
		US- 5,455,066	10-03-1995	Broich et al.	
		US- 5,518,586	05-21-1996	Mirous	
		US- 5,593,625	01-14-1997	Reibel et al.	
		US- 5,766,331	06-16-1998	Krinski et al.	
		US- 5,851,933	12-22-1998	Swartz et al.	
		US- 5,914,365	06-22-1999	Chang et al.	
		US- 6,084,021	07-04-2000	Chang et al.	
		US- 6,231,985	05-15-2001	Chen et al.	
		US- 6,306,997	10-23-2001	Kuo et al.	
		US- 6,365,650	04-02-2002	Chen et al.	
		US- 6,384,116	05-07-2002	Chan et al.	
		US- 6,497,760	12-24-2002	Sun et al.	
		US- 6,518,387	02-11-2003	Kuo et al.	
		US- 6,544,911	04-08-2003	Peng et al.	
		US- 6,719,882	04-13-2004	Vijayendran et al.	
		US- 2002/0005251 A1	01-17-2002	Sun et al.	
		US- 2003/0148084 A1	08-07-2003	Trocino et al.	
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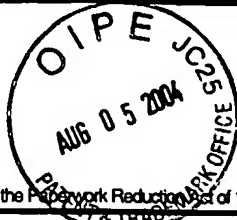
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**Complete if Known**

<b>Application Number</b>	10/671,884
<b>Filing Date</b>	September 29, 2003
<b>First Named Inventor</b>	Kelly Shoemake
<b>Art Unit</b>	1771
<b>Examiner Name</b>	TBA
<b>Attorney Docket Number</b>	005242.00133

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STATEMENT BY APPLICANT**

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Application Number	10/671,884
Filing Date	September 29, 2003
First Named Inventor	Kelly Shoemaker
Art Unit	1771
Examiner Name	TBA
Attorney Docket Number	005242.00133

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BIAN, et al., "Adhesive Performance of Modified Soy Protein Polymers" Polym. Prep., Am. Chem. Soc. Div., Polym. Chem., Vol. 39, pp. 72-73, 1998.	
		KIRK-OTHMER, "Soybeans and other Oilseeds" Encyclopedia of Chemical Technology, Vol. 21, 3 <sup>rd</sup> Ed., pp. 418-422, 1983.	
		KIRK-OTHMER, "Soybeans and Other Oilseeds" Encyclopedia of Chemical Technology, Vol. 22, 4 <sup>th</sup> Ed., pp. 591-619, 1997.	
		MO et al., "Compression and Tensile Strenght of Low-Density Straw-Protein Particleboard" Industrial Crops and Products, Vol. 14, pp. 1-9, 2001.	
		HOJILLA-EVANGELISTA, et al., "Foaming Properties of Soybean Protein-Based Plywood Adhesives", JAOCS, Vol. 78, No. 6, pp. 567-572, 2001.	
		KUO, et al., "Properties of Wood/Agricultural Fiberboard Bonded with Soybean-Based Adhesives" Forest Products Journal, Vol. 48, No. 2, pp. 71-75, February 1998.	
		KRINSKI, et al., "Emerging Polymeric Materials Based on Soy Protein" American Chemical Society, pp. 299-312, 1992.	
		HOJILLA-EVANGELISTA, et al., "Adhesive Qualities of Soybean Protein-Based Foamed Plywood Glues" JAOCS, Vol. 79, No. 11, pp. 1145-1148, 2002.	
		SUN, et al., "Plastic Performance of Soybean Protein Components" JAOCS, Vol. 76, No. 1, pp. 117-123, 1999.	
		CONNER, et al., "Soybean-Based Wood Adhesives" JAOCS, Vol. 66, No. 4, pp. 437, 1989.	
		YANG, et al., "Soybean-Based Wood Adhesives for Structural Panels" Citations from Dissertation Abstracts, Vol. 63-04B, pp 1625, 2002.	

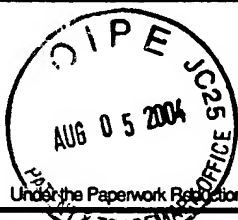
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		COLEN, "A Study to Ascertain the Viability of Ultrasonic Nondestructive Testing to Determine the Mechanical Characteristics of Wood/Agricultural Hardboards with Soybean Based Adhesives" UMI Dissertation Services, 1998.	
		KARCHER, "Incorporation of Corn- and Soybean-Based Materials into Plywood Adhesives" University of Illinois Thesis, pp. 115-216, 1997.	
		SCHMITT, "Startup Firm Stuck on Soybeans" Chemical Week, pp. 9, March 13, 2002.	
		PARTINGTON, "United Soybean Board Unveils Soy-Based Wood Adhesive" Adhesives Age, pp. 46, October 1996.	
		"Soybean Based Adhesives Developed for Wood Applications" Adhesives Age, pp. 40, April 1994.	
		LORENZ, et al., "The Effect of Soy Protein Additions on the Reactivity and Formaldehyde Emissions of Urea-Formaldehyde Adhesive Resins" Forest Products Journal, Vol. 49, No. 3, pp. 73-78, March 1999.	

Examiner  
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